

FIG. 1

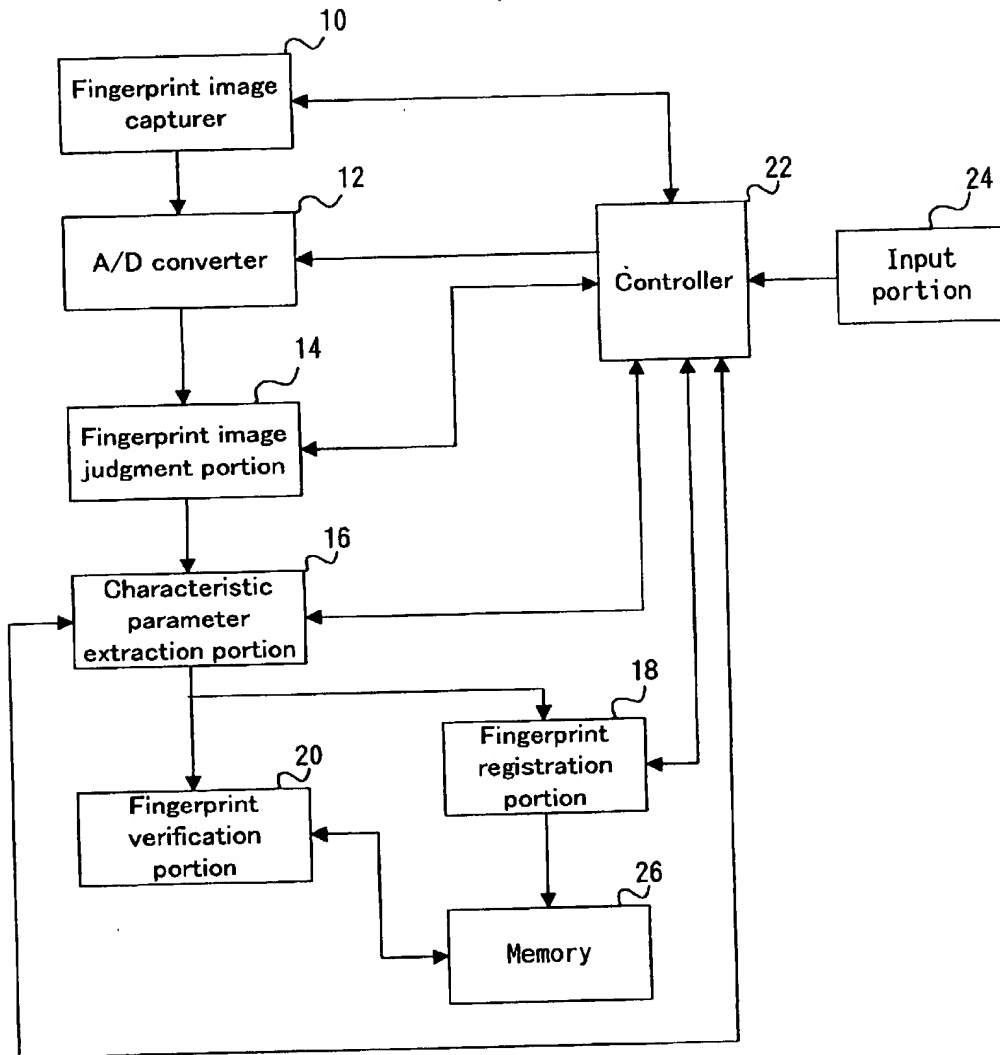


FIG. 2

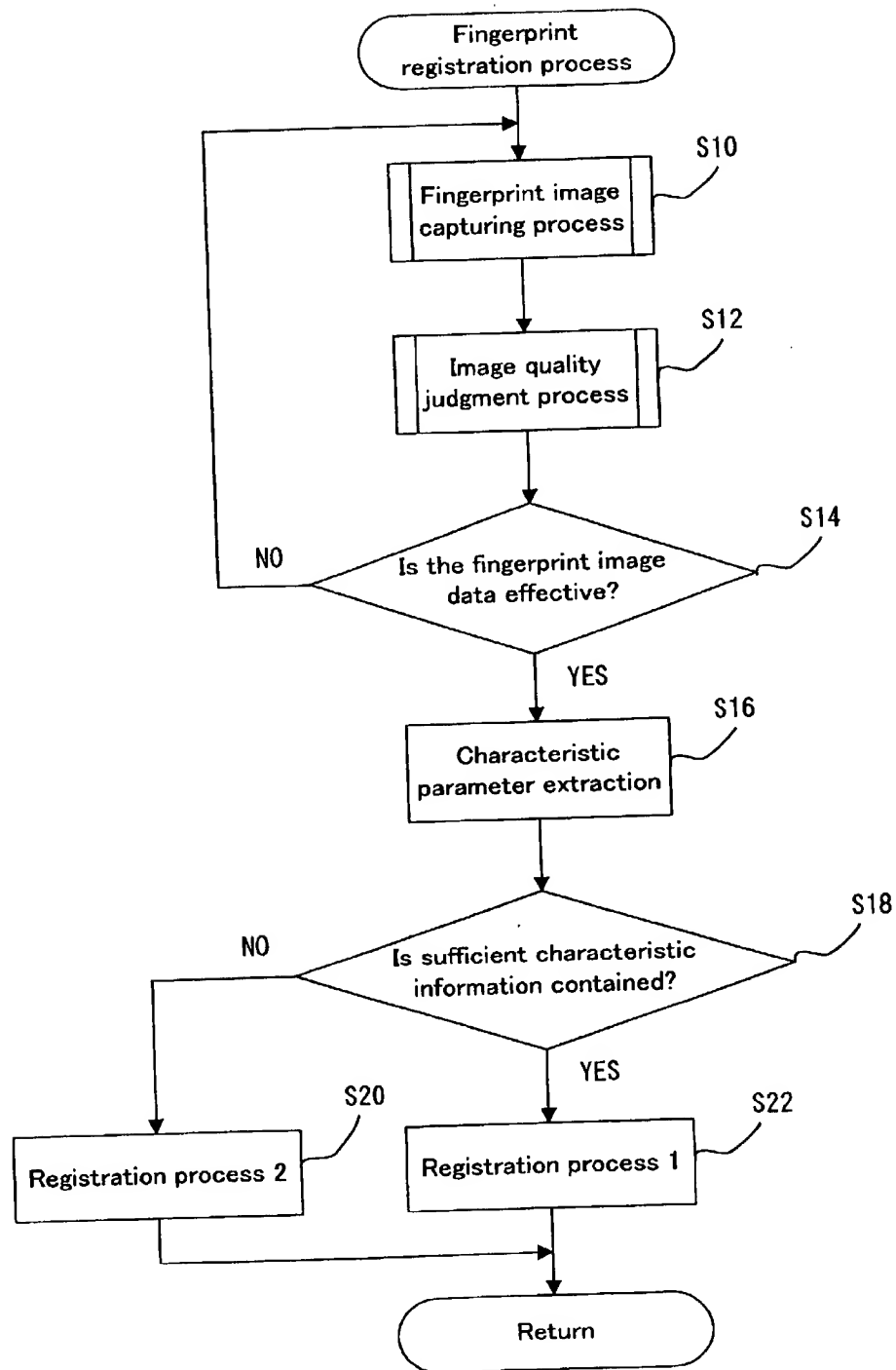


FIG. 3

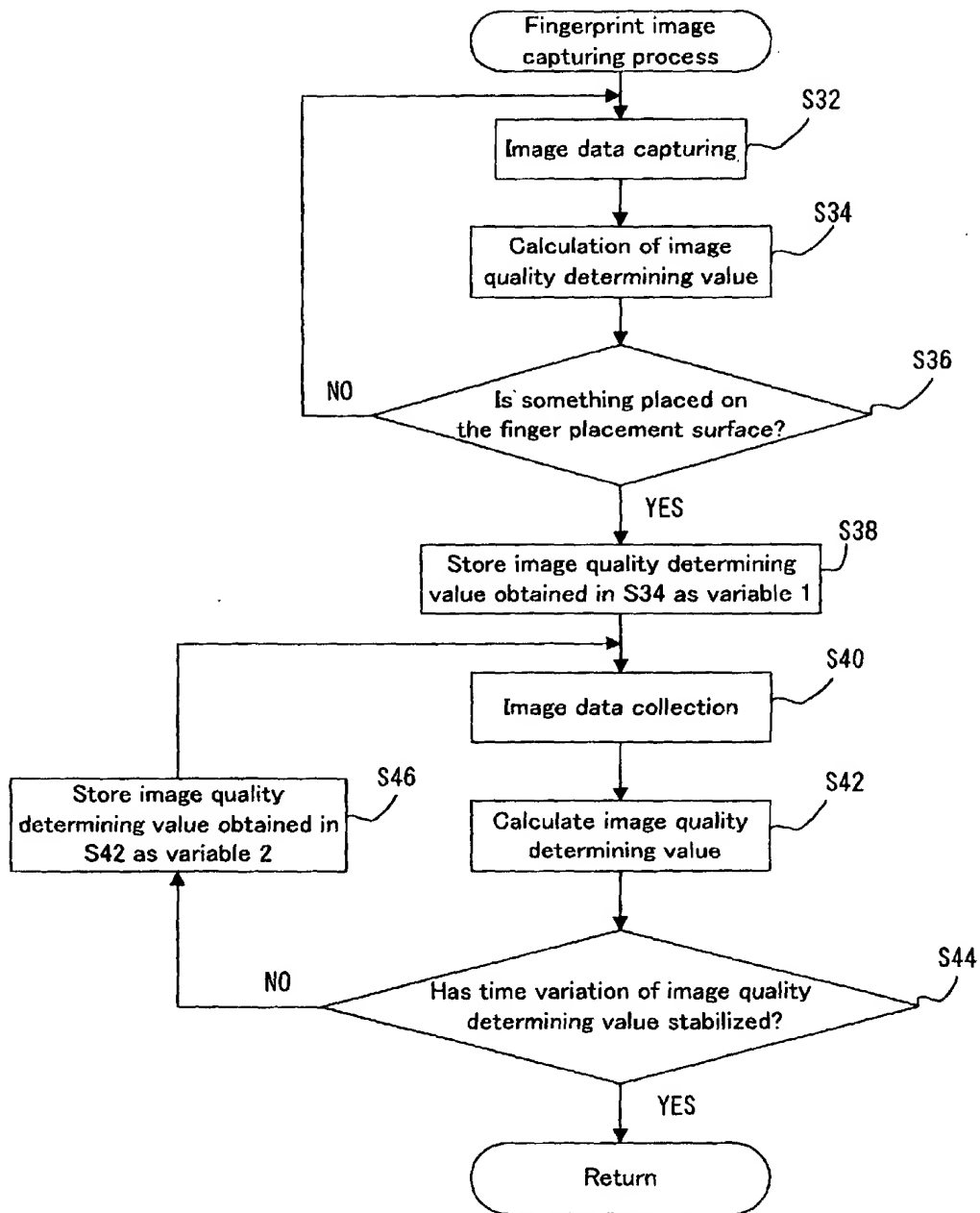


FIG. 4

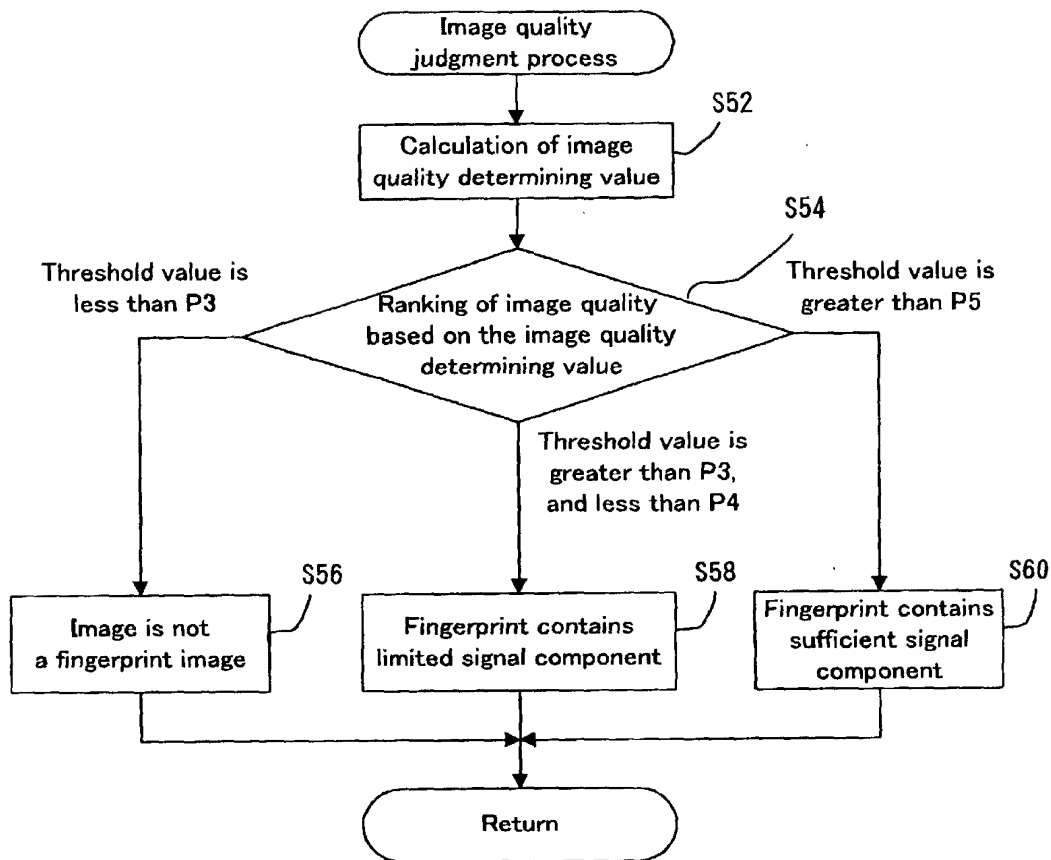


FIG. 5

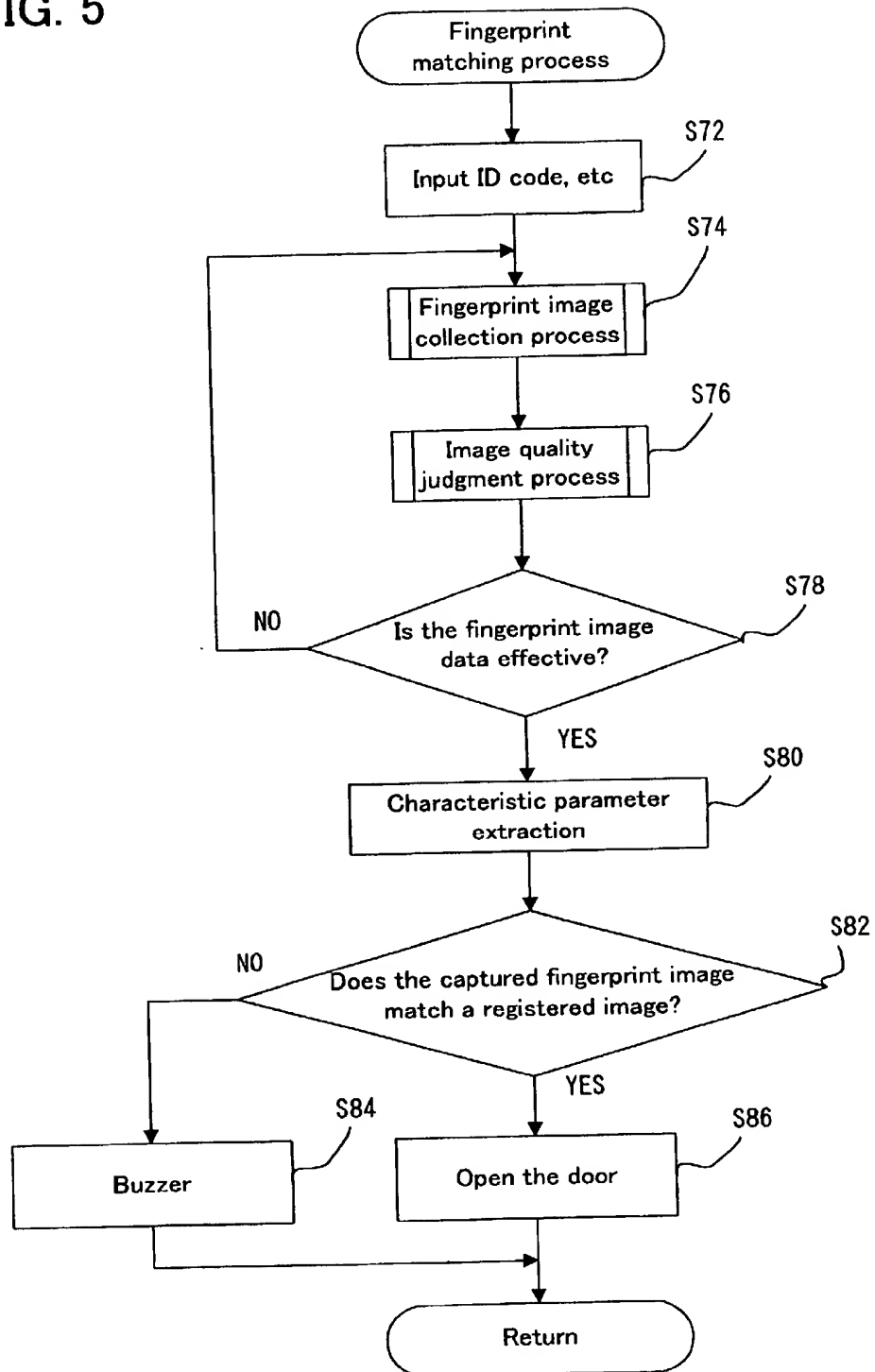


FIG. 6

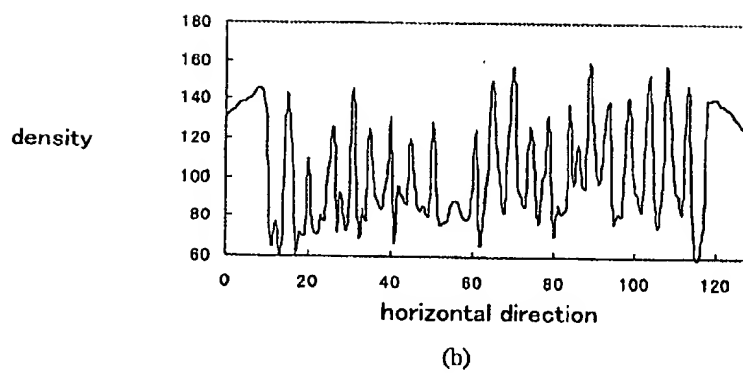
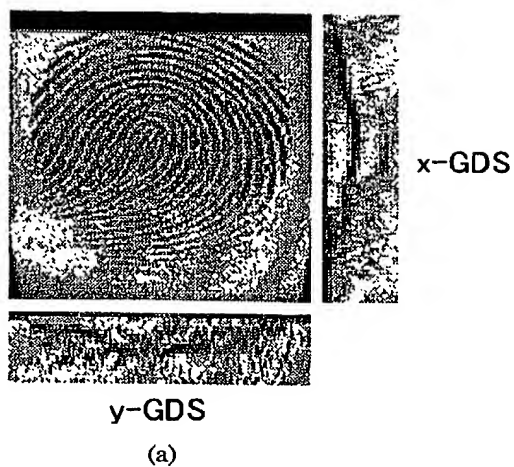


FIG. 7

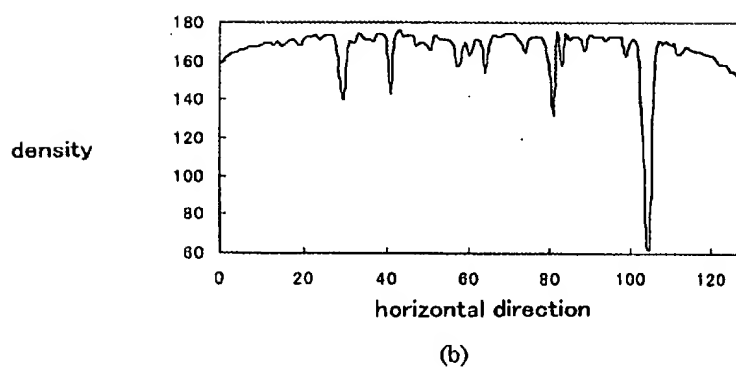
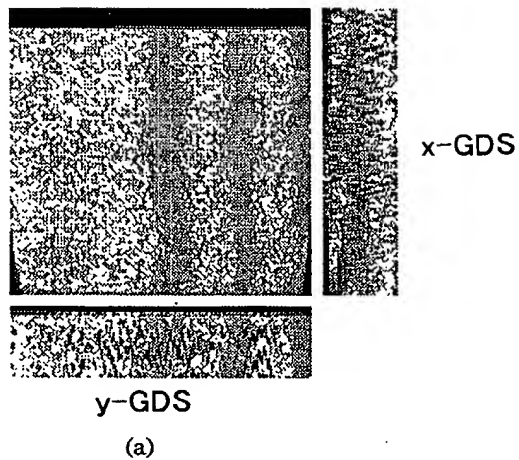


FIG. 8

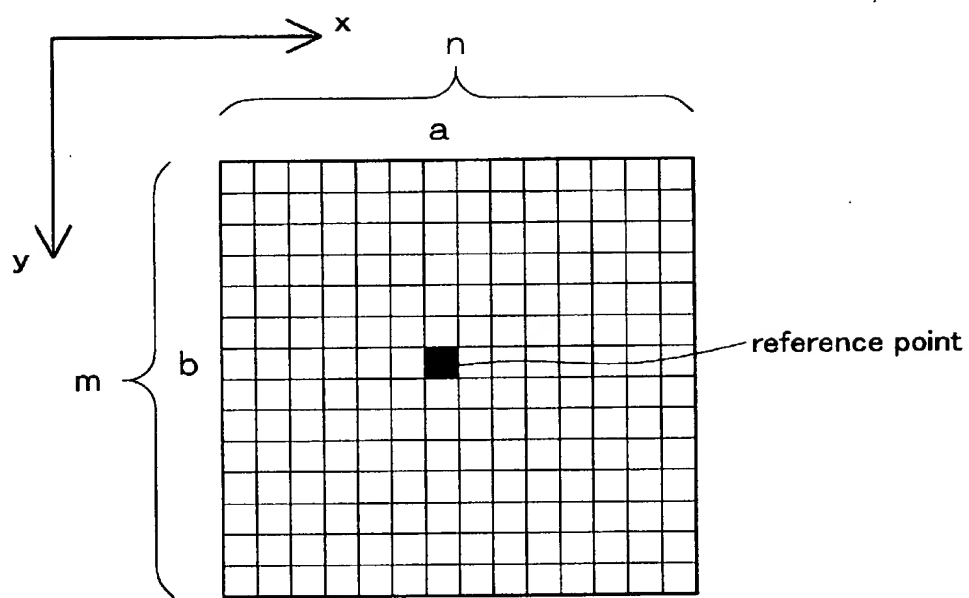


FIG. 9

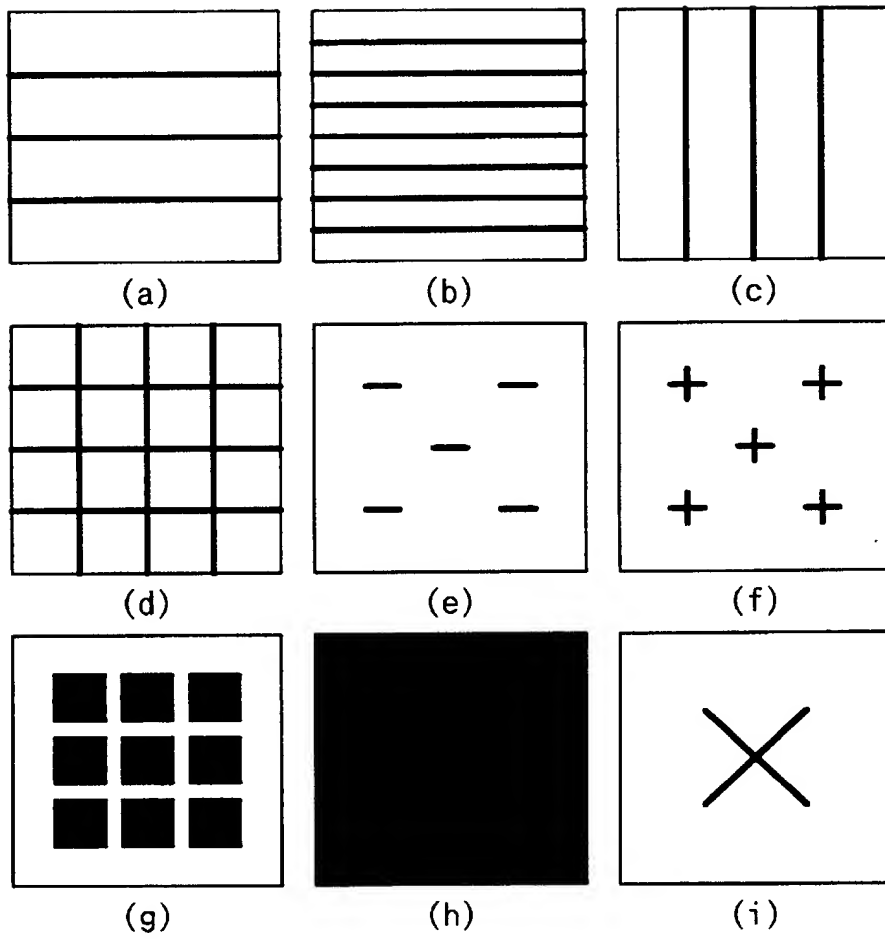


FIG.10

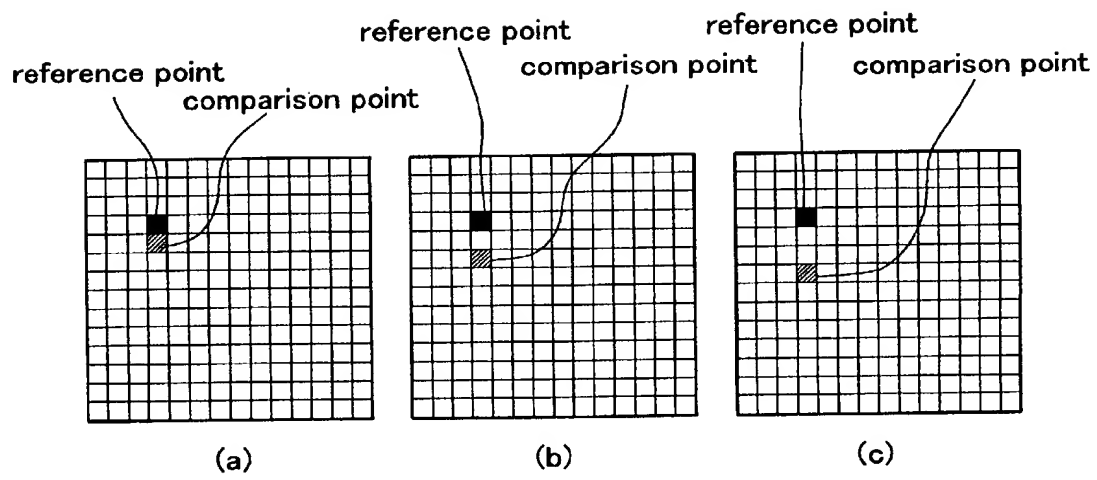


FIG.11

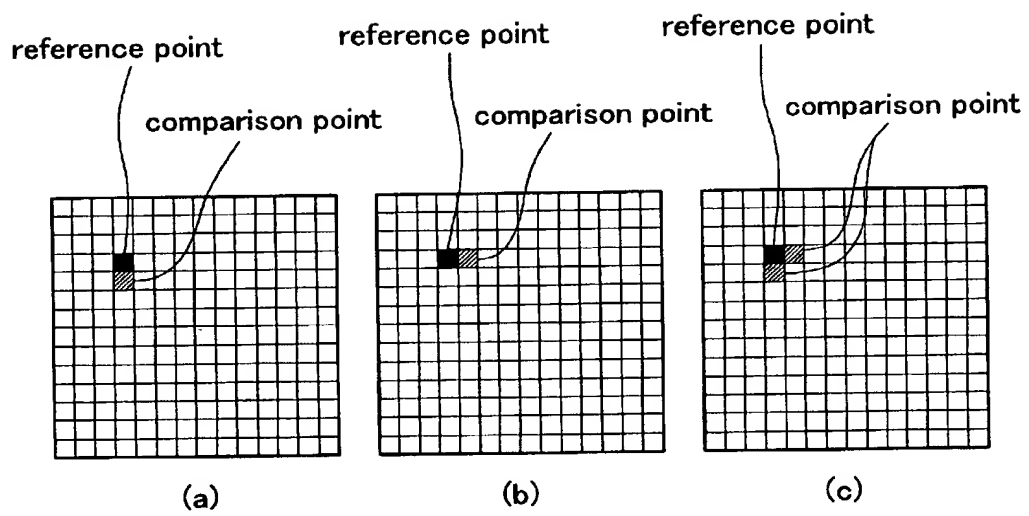


FIG.12

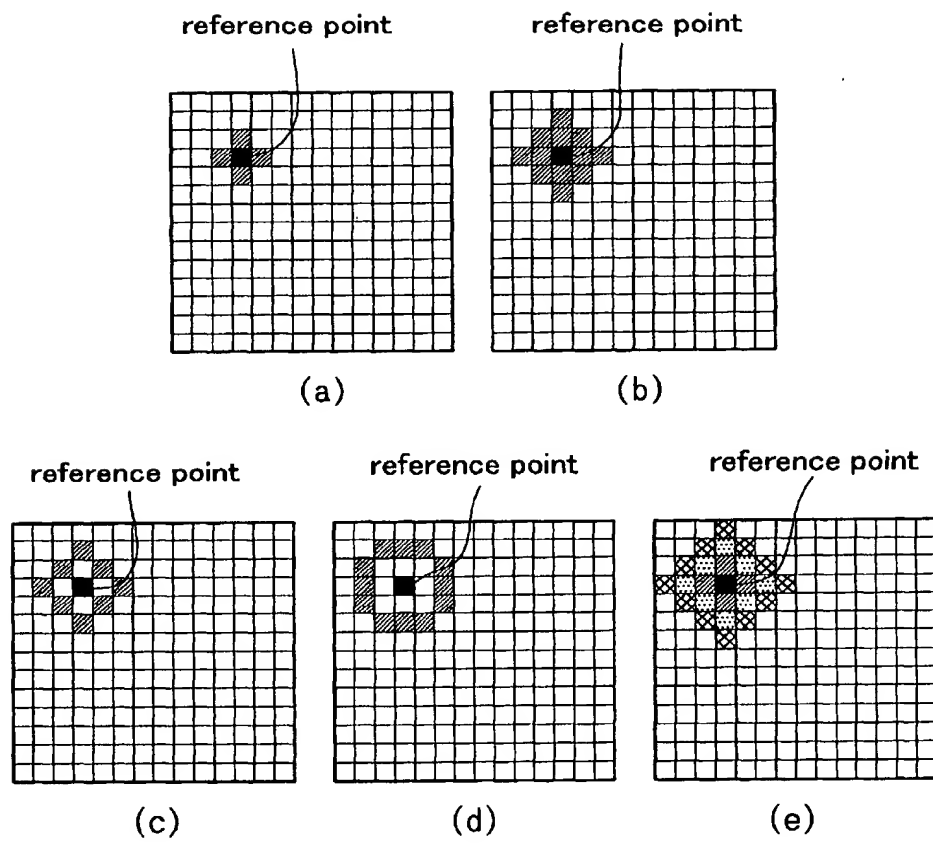


FIG.13

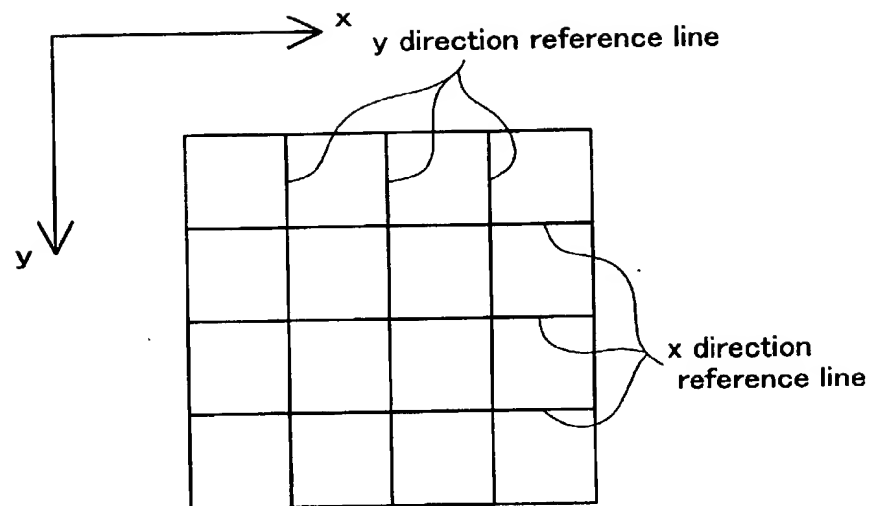


FIG.14

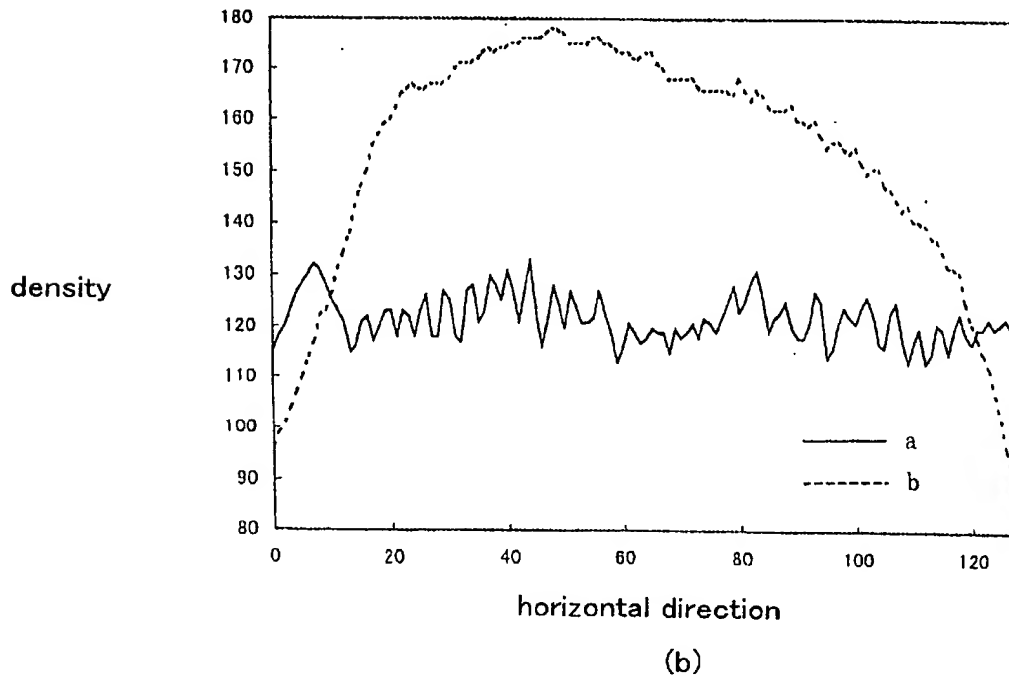
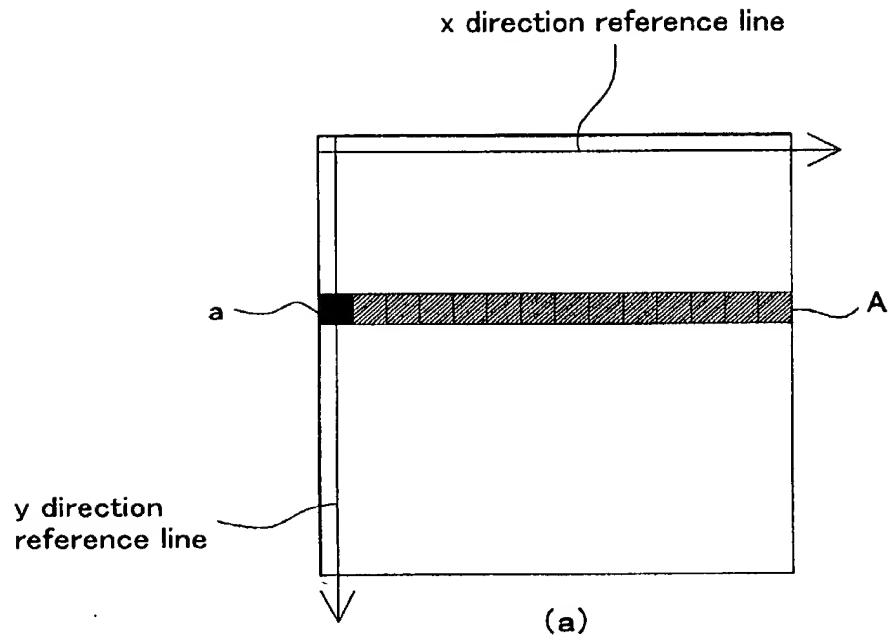
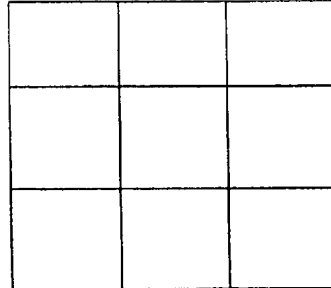


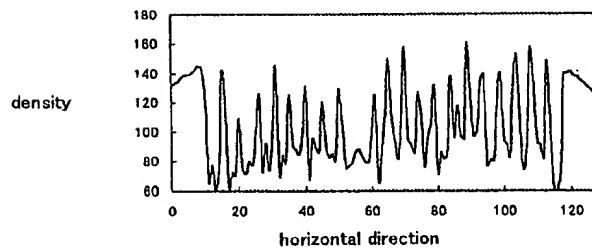
FIG.15

vertical direction (y direction)

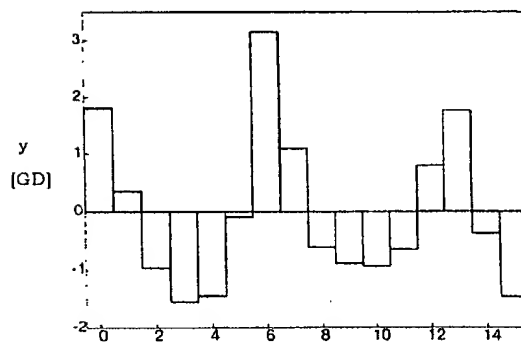


horizontal direction
(x direction)

(a)



(b)



(c)

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FIG.16

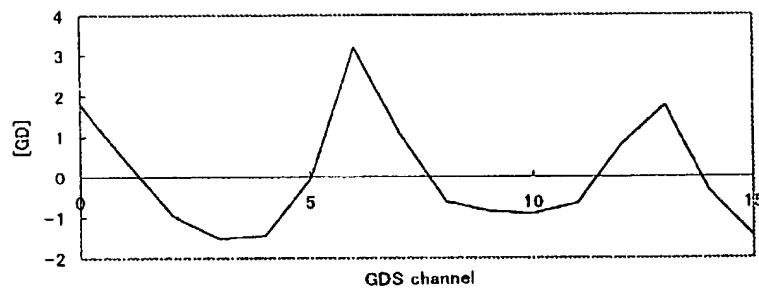
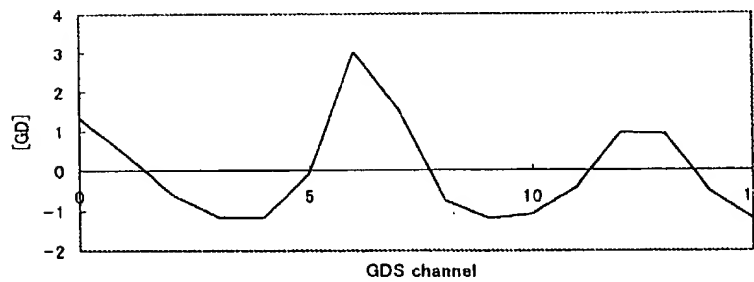
(a) GDS pattern of i -th line(b) GDS pattern of $i+1$ -th line

FIG.17

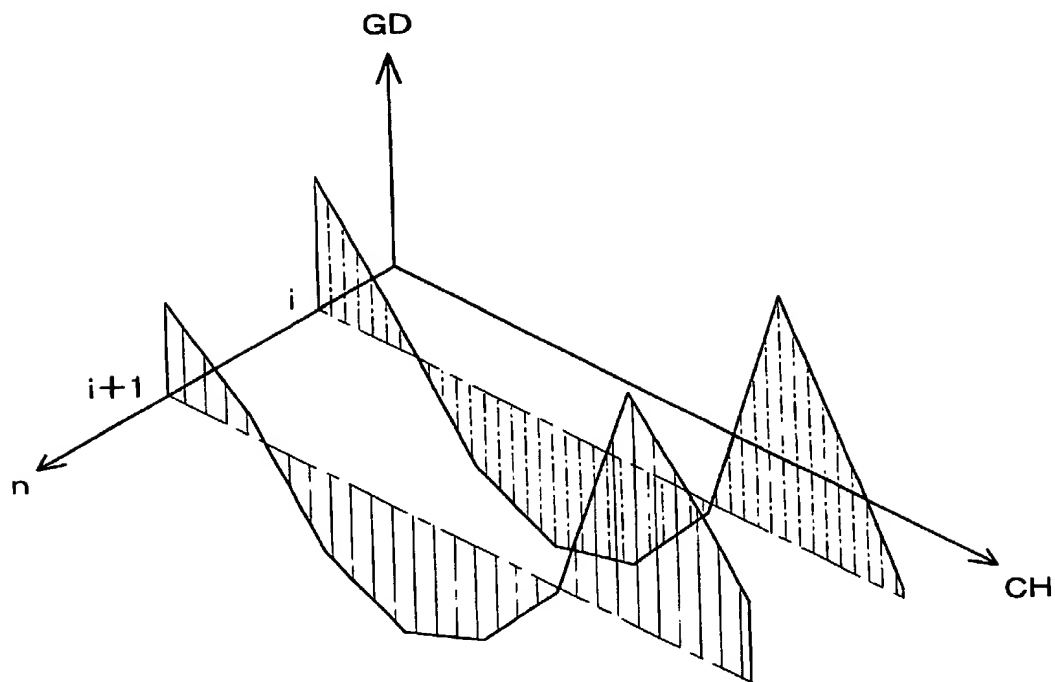


FIG.18

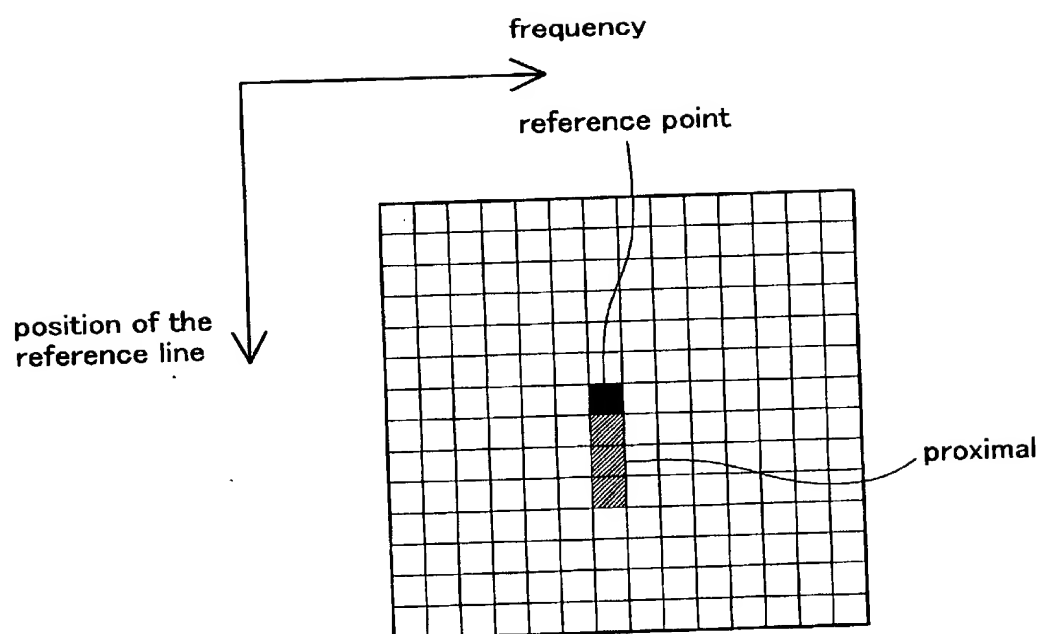


FIG.19

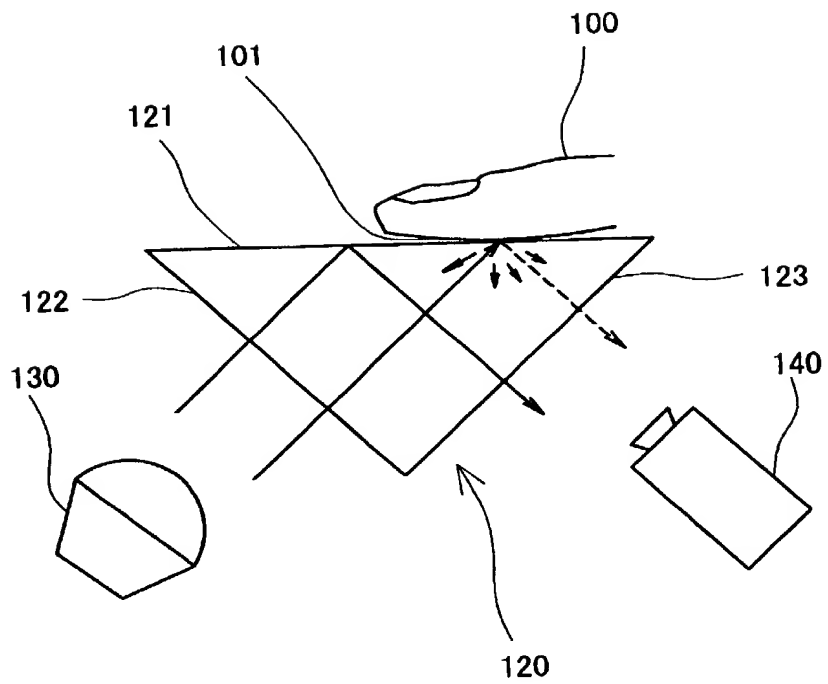
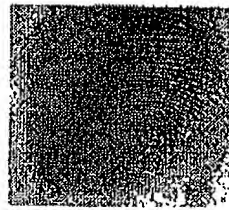
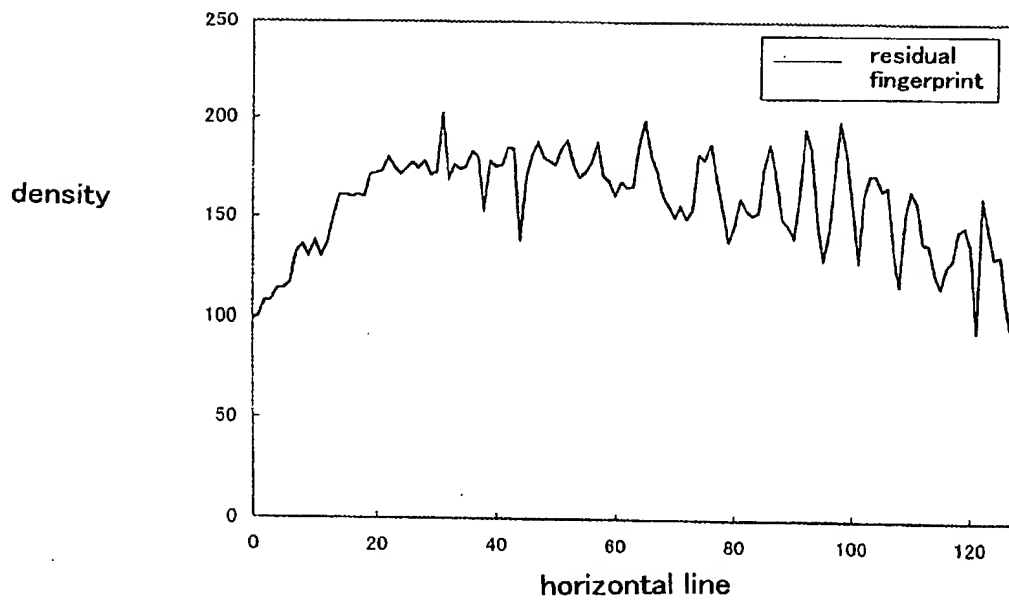


FIG. 20



(a)



(b)

FIG. 21

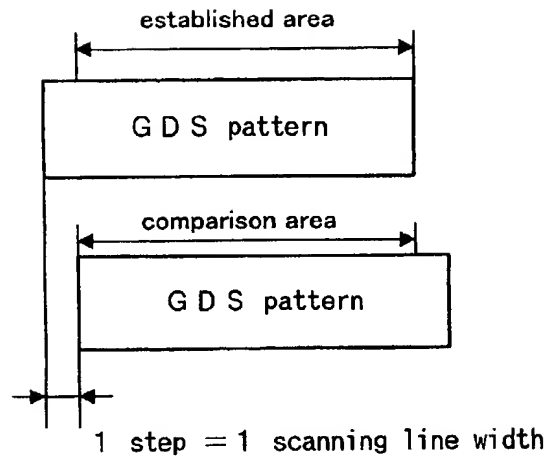


FIG. 22

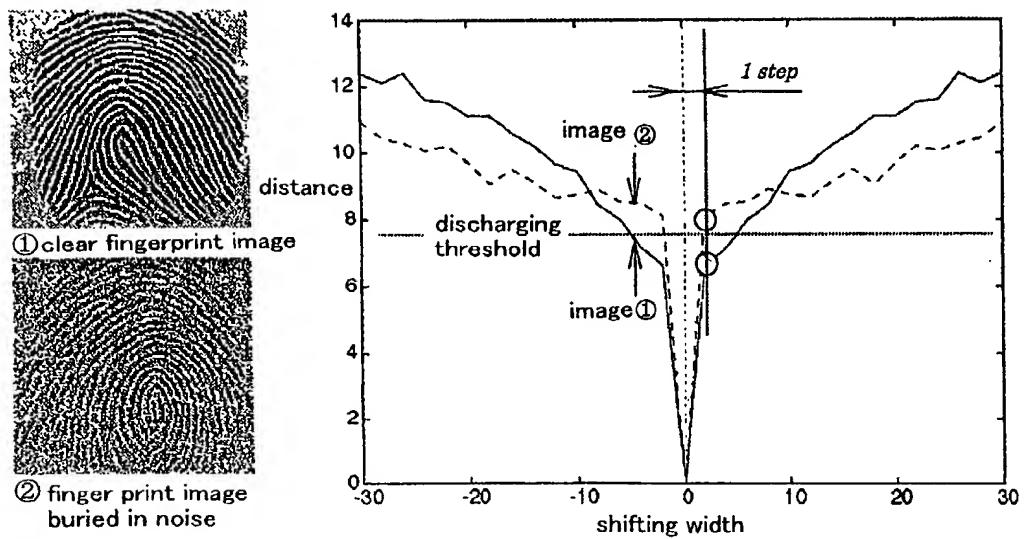


FIG. 23

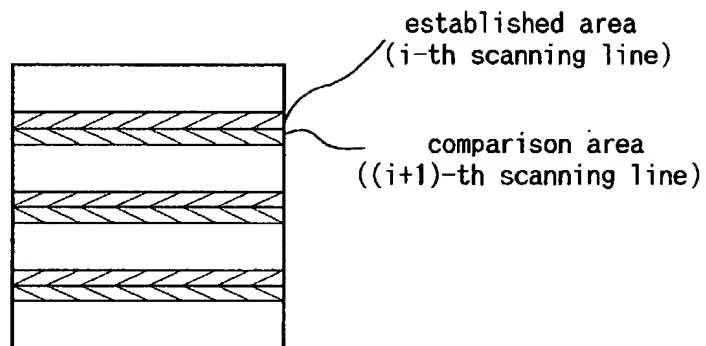


FIG. 24

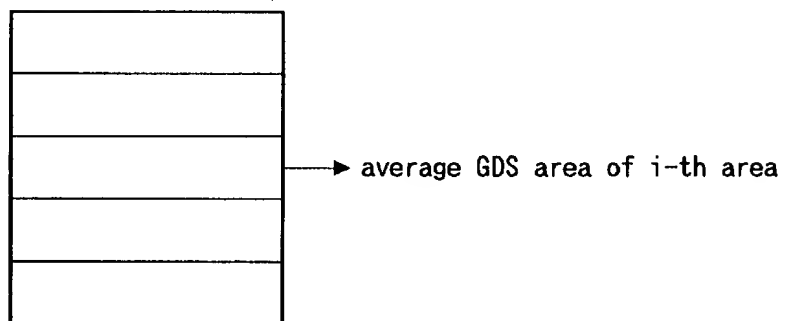
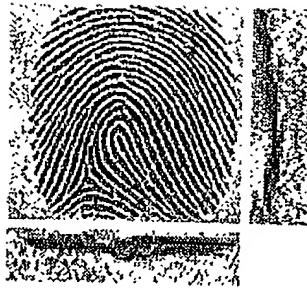


FIG. 25



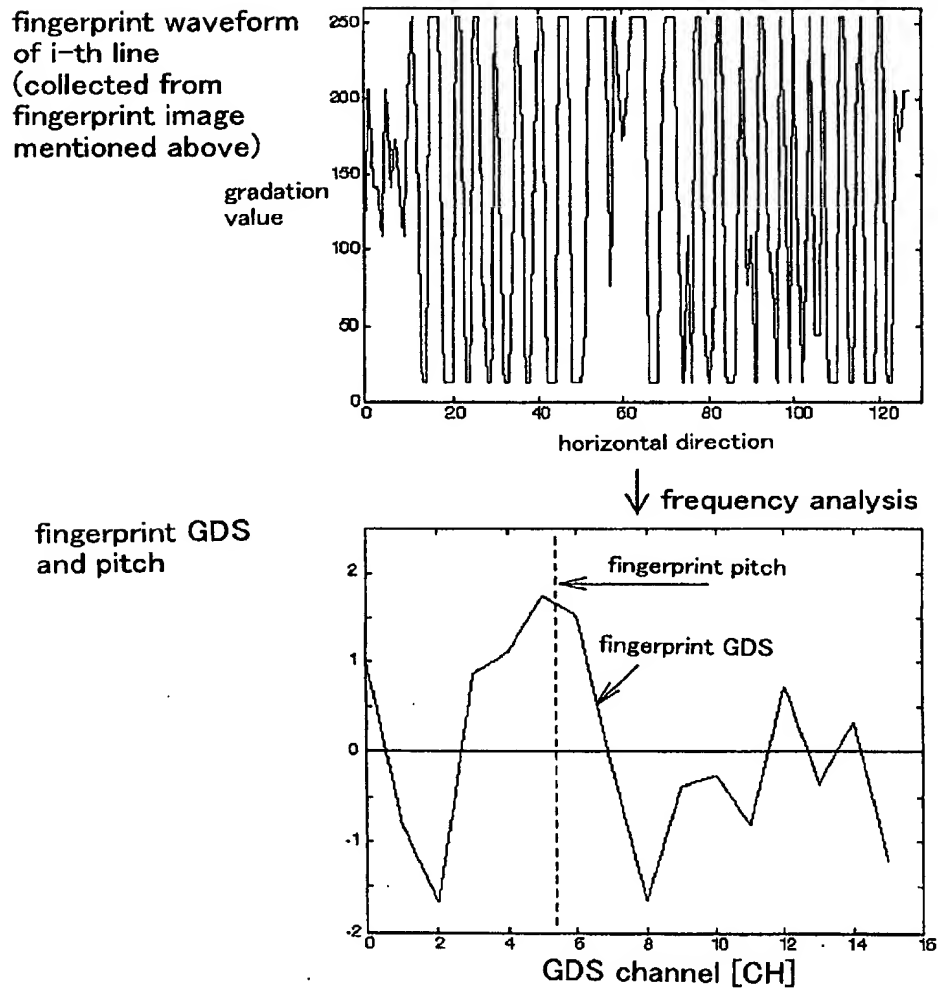
(a) fingerprint GDS



(b) fingerprint pitch

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FIG. 26



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FIG. 27



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